

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 20 August 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area now lies over Northwest Bay of Bengal & adjoining West Bengal & north coastal Odisha. Associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height.
- Widespread rainfall with isolated heavy to very heavy and extremely heavy falls is likely over south Chhattisgarh, south Odisha, north Coastal Andhra Pradesh and Telangana during next 24 hours and decrease significantly over the area from tomorrow onwards.
- Rough to very rough sea conditions are likely to prevail over West & East central Arabian Sea during next 5 days and over north Bay of Bengal during 24 hours.
- Heavy to very heavy rain observed at isolated places over Telangana and heavy at a few places over Coastal Andhra Pradesh and Odisha and at isolated places over Konkan & Goa, South Interior Karnataka, Chhattisgarh, Gangetic West Bengal from 0830 hours IST of yesterday to 0830 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at most places over East Uttar Pradesh, West Bengal & Sikkim, Odisha, Gujarat, East Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Kerala, Telangana and Coastal Andhra Pradesh; at many places over Uttarakhand, West Uttar Pradesh, Jharkhand, Bihar, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Interior Karnataka and Lakshadweep; at a few places over East Rajasthan and Assam & Meghalaya and at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi. Tamilnadu, Rayalaseema and Nagaland, Manipur, Mizoram & Tripura.
- Maximum temperature departures as on 19.08.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Bihar, Uttarakhand, Sub Himalayan west Bengal & Sikkim and Assam & Meghalaya; at many places over East Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand and Odisha; at many places over West Uttar Pradesh, Himachal Pradesh, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at a few places over East Rajasthan and Jammu & Kashmir

and at isolated places over Madhya Pradesh, Konkan & Goa and Andaman & Nicobar Islands. They were appreciably below normal (3.1°C to 5.0°C) at many places over Telangana and Coastal Andhra Pradesh; and below normal (1.6°C to 3.0°C) at a few places over Vidarbha and Marathawada and at isolated places over Gujarat, Madhya Maharashtra, West Madhya Pradesh, Kerala and Tamilnadu & Puducherry and near normal over rest of the country.

- Yesterday, the highest maximum temperature of 38.6°C was recorded at Bhagalpur (Bihar) over plains of the country.
- Minimum temperature departures as on 20.08.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Punjab and Uttarakhand; at many places over Jammu & Kashmir, East Rajasthan, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh; at a few places over Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya, Bihar, Himachal Pradesh, West Rajasthan, Andaman & Nicobar Islands and Tamilnadu & Puducherry and at isolated places over Madhya Pradesh, Haryana, Chandigarh & Delhi. They are below normal (1.6°C to 3.0°C) at many places over Telangana and Coastal Andhra Pradesh and at isolated places over Odisha, Marathawada, South Interior Karnataka & Chhattisgarh and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 20 August (Day 1): Heavy to very heavy rain with extremely heavy falls at isolated places very likely over south Chhattisgarh, Telangana, north Coastal Andhra Pradesh and Odisha; heavy to very heavy rain at isolated places over West Madhya Pradesh, Vidarbha and Konkan & Goa; heavy rain at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Jharkhand, Uttarakhand, East Rajasthan, West Uttar Pradesh, East Madhya Pradesh, south Gujarat, Madhya Maharashtra, Marathwada and Karnataka. Rough to very rough sea conditions are likely to prevail over West & East central Arabian Sea and Odisha and West Bengal coasts. Fishermen are advised not to venture into the sea over these areas.
- 21 August (Day 2): Heavy to very heavy rain at isolated places very likely over Vidarbha, Chhattisgarh, Telangana & Konkan & Goa and heavy rain at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh and Coastal Karnataka. Rough to very rough sea conditions are likely to prevail over West and East central Arabian Sea. Fishermen are advised not to venture into the sea over these areas.
- 22 August (Day 3): Heavy rain at isolated places very likely over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Gujarat and Konkan & Goa. Rough to very rough sea conditions are likely to prevail over West and East central Arabian Sea. Fishermen are advised not to venture into the sea over these areas.

- 23 August (Day 4): Heavy rain at isolated places likely over Uttarakhand and Uttar Pradesh. Rough to very rough sea conditions are likely to prevail over West and East central Arabian Sea. Fishermen are advised not to venture into the sea over these areas.
- 24 August (Day 5): Heavy rain at isolated places likely over Bihar, Gangetic West Bengal, Uttarakhand and Uttar Pradesh. Rough to very rough sea conditions are likely to prevail over West and East central Arabian Sea. Fishermen are advised not to venture into the sea over these areas.
- The weather outlook for the period of seven days *i.e* 20 to 27 August 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Uttarakhand, Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, West Bengal & Sikkim, Jharkhand, Bihar, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat, Vidarbha, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Coastal Andhra Pradesh, Rayalaseema, Interior Karnataka Kerala, Lakshadweep, Tamilnadu and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Konkan region

Weather condition

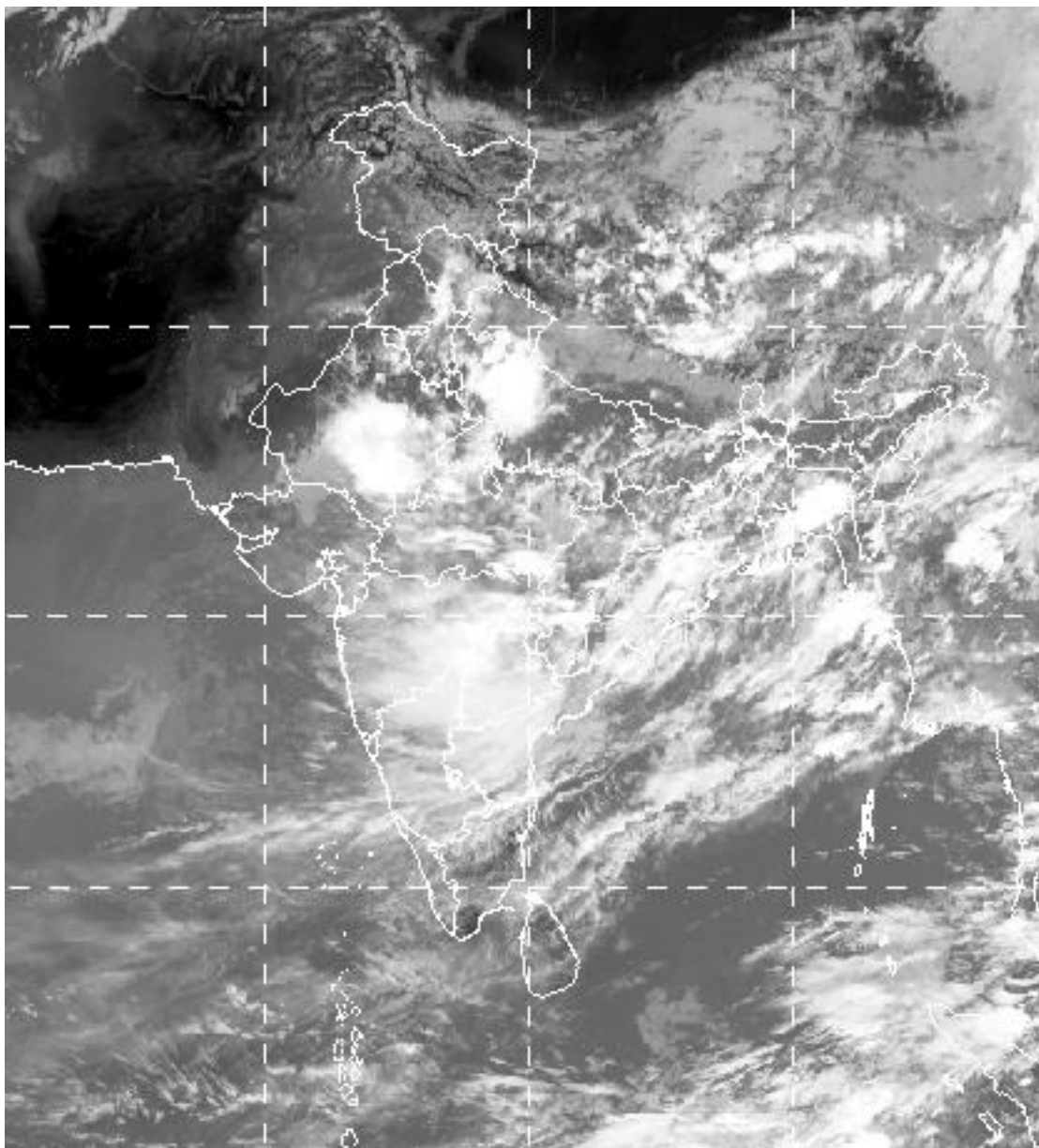
Light rainfall received in Konkan region of Maharashtra state during past few days. The maximum and minimum temperature ranged from 26.2 to 27.4 °C and 22.5 to 23.5°C respectively.

Contingency measure:

- Fingermillet: Give 2nd dose of nitrogen 40 kg/ha (Urea 87 kg/ha) to nagali crop after one month of transplanting
- Rice: Remove excess water from field and maintain optimum water level of 5 cm. in rice the rice field Bunding of rice field should be done and remove all weeds on bund. There is a possibility for incidence of blue beetle and leaf folder, if it is noticed; spray Quinalphos 25% EC @ 2 lit. or Triazophos 40% EC @ 625 ml or lambdacyhalothrin 5% EC @ 250 ml in 500 lit. of water per hector. If incidence of rice case worm is observed on rice crop. Then dislodge the cases by passing a rope and drain water. Collect the cases and destroy. Give 2nd dose of Nitrogen 40 kg/ha to rice crop after one month of transplanting
- Mango and Cashew: Apply paclobutrazol (cultural/coltar) for regular flowering, fully developed mango trees of 10 years old and above. Measure average diameter of canopy of the tree and apply cultural @ 3 ml per meter diameter (e.g. If east-west diameter of the plant is 5 m and North ? South diameter is 7 m then average will be 6 m. So far $6 \times 3 = 18$ ml. will be the quantity of cultural. This quantity of paclobutrozol be mixed in 3 to 5 lits. of water and

applied in 25 to 30 holes, 10 to 12 cm deep around the tree basin with help of kudali or crowbar just inside the manuring ring at uniform distance. Then uniform quantity of solution be drenched into holes, followed by closing or plugging of holes with soil. Before application weeds be removed. Paclobutrazol application be avoided during heavy rainy days. Apply fertilizer dose of 40 kg. FYM/Green manure, 2 kg. urea 1.5 kg. SSP and 500 gm. MOP per plant to the cashew nut crop having age above 4 years

- Coconut, Arecanut: Spraying the FYM pits with 0.2 % Carbaryl for control of adults and grubs of rhinoceros beetle. To control red palm weevil affected coconut, fill the holes made by RPW with 10 per cent Carbaryl dust and sand mixture. Prepare a slanting hole with the help of screw drill about 1 m height from ground level on tree trunk and pour about 20 ml of 36 % Monocrotophos or 20% Chlorpyrifos with the help of plastic funnel in the hole and close the hole with the help of cement. For 3 year old arecanut palm apply 1 kg F.Y.M./compost alongwith 12 kg green manures + 160 g urea + 500 g single super phosphate + 125 g muriate of potash. Prepare water channels to drain out excess water from coconut and arecanut garden during rainy season
- Vegetable and Fruit crop nursery: Proper support should be given to cucurbitaceous crops. Apply one third dose of urea @ 720 g to 870 gm per guntha to vegetable crops. Install Rakshak trap @ 4 nos. per ha in cucurbitaceous crop for effective control of fruit fly. Drain out excess water with proper drainage from mango and cashew nursery.
- Goats/ Milch animals/ Poultry: Provide clean and hygienic drinking water and nutritious fodder and concentrates to farm animal. Planting of biennial and perennial forage crops for animal. The varieties of perennial crops (stumps) like paragrass, Hybrid napier (Jayawant CO-3, Yashwant) etc. Provide 1 to 1.5 kg concentrate + 15 to 20 kg green fodder + 4 to 5 kg roughages per day for milch animals. Young goats provide 3 to 4 kg green fodder + 2 to 2.5 kg dry fodder + 300 g concentrate, Vaccination against foot & mouth disease in cows, buffaloes & goats under the supervision of veterinary officers is advocated. For boiler poultry bird 1st three week provide boiler starter and 4 to 6 week old bird provide boiler finisher as per their daily requirement.



**Figure: 1. Latest available satellite picture as on 20 August 2018 at 0230 Hrs (IST).
(Source: IMD).**

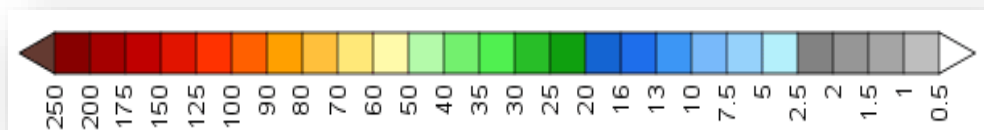
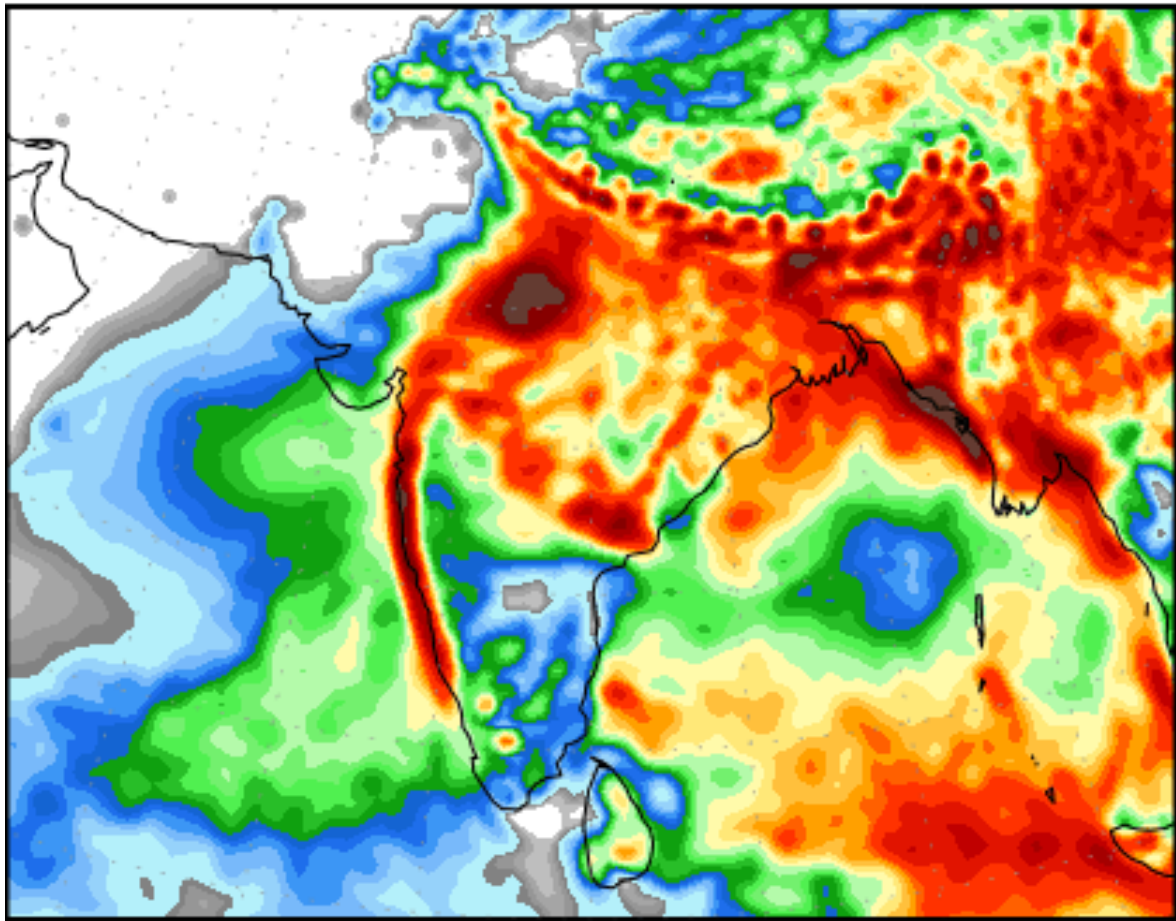


Figure: 2. Precipitation forecast for 20 to 27 August 2018 (Source: NOAA NCEP).